Radio Group

Radio Group Component This document outlines the specifications for the RadioGroupComponent , a reusable Angular component designed to present a group of radio buttons, allowing users to select a single option from a list of choices. Purpose ■ The RadioGroupComponent provides a user-friendly interface for selecting a single option from a set of mutually exclusive choices presented as radio buttons. It enhances the user experience by organizing options in a logical group and ensuring only one option can be selected at a time. Usage ■ Integrate the RadioGroupComponent into your Angular applications to facilitate the selection of single options from a predefined list presented as radio buttons. Inputs ■ options : (Required) An array of objects representing the options available in the radio group. Each object should have the following properties: value : (Required) The unique value associated with the option. label : (Required) The label or display text for the option. selectedValue : (Optional) The value of the initially selected option. Defaults to null . disabled : (Optional) Disables all radio buttons in the group if set to true . layout : (Optional) Specifies the layout orientation of the radio buttons. Possible values: 'horizontal' : Arranges radio buttons horizontally (default). 'vertical' : Arranges radio buttons vertically. Events ■ selectionChange : Fired when the selected option in the radio group changes. Emits the value of the newly selected option. < app-radio-group [options] = " radioOptions " [selectedValue] = " selectedOption " [disabled] = " false " layout = " vertical " (selectionChange) = " onSelectionChange($event) " > </ app-radio-group > Notes ■ Ensure that each option in the options array has a unique value property to distinguish between options. Customize the styling of the radio buttons and their labels to maintain consistency with the overall design of your application. Implement the selectionChange event handler to respond to changes in the selected option within the radio group. // Example data for options radioOptions = [{ value : 'option1' , label : 'Option 1' } , { value : 'option2' , label : 'Option 2' } , { value : 'option3' , label : 'Option 3' }] ; selectedOption : string | null = 'option2' ; onSelectionChange (value : string) { this . selectedOption = value ; }

```
<app-radio-group
  [options]="radioOptions"
  [selectedValue]="selectedOption"
  [disabled]="false"
  layout="vertical"
  (selectionChange)="onSelectionChange($event)"
></app-radio-group>


---

// Example data for options
radioOptions = [
  { value: 'option1', label: 'Option 1' },
  { value: 'option2', label: 'Option 2' },
  { value: 'option3', label: 'Option 3' }
];

selectedOption: string | null = 'option2';

onSelectionChange(value: string) {
  this.selectedOption = value;
}
```